

## AICDA Protein, Mouse, Recombinant (His & Myc)

### General Information

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|-----------------------|--|
| Synonyms:             | Aicda;Single-stranded DNA cytosine deaminase;Aid;Activation-induced cytidine deaminase (AID);Cytidine aminohydrolase   |
| Protein Construction: | 1-198 aa   |
| Species:              | Mouse  |
| Expression Host:      | E. coli  |
| Accession:            | Q9WVE0   |
| Molecular Weight:     | 31.5 kDa (predicted)   |
| AA Sequence:          | MDSLLMKQKKFLYHFKNVRWAKGRHETLYCYVVKRRDSATSCSLDFGHLRNKSGCHVELLFLRYISDWDLDP<br>GRCYRVTWFTSWSPCYDCARHVAEFLRWPNLSLRIFTARLYFCEDRKAEPGLRRLHRAGVQIGIMTFKDYF<br>YCWNTFVENRERTFKAWEGLHENSRLTRQLRRILLPLYEVDDLRLDAFRMLGF |

### QC Testing

|                      |   |
|----------------------|---|
| Biological Activity: | Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first. |
| Purity:              | > 90% as determined by SDS-PAGE.  |
| Endotoxin:           | < 1.0 EU/μg of the protein as determined by the LAL method.   |
| Formulation:         | Tris-based buffer, 50% glycerol   |

### Preparation and Storage

#### Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Single-stranded DNA-specific cytidine deaminase. Involved in somatic hypermutation (SHM), gene conversion, and class-switch recombination (CSR) in B-lymphocytes by deaminating C to U during transcription of Ig-variable (V) and Ig-switch (S) region DNA. Required for several crucial steps of B-cell terminal differentiation necessary for efficient antibody responses. May also play a role in the epigenetic regulation of gene expression by participating

in DNA demethylation.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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